Chemistry 141 Name key

Dr. Cary Willard

Quiz 1a (20 points) August 26, 2013

1. (3 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (6 points) Rolls of aluminum foil are 524 mm wide and 0.018 mm thick. What maximum length of aluminum foil can be made from 250.0 lb of aluminum if the density of aluminum is 2.70 g/mL?
3. (3 points) Classify a beaker of flavorful mashed potatoes as as homogeneous or heterogeneous and justify your choice.
4. (8 points) On the new Grossmont temperature (oGC)scale, water freezes at 42oGC and boils at 158oGC. On another new temperature scale, the Cuyamaca (oCC) scale, water freezes at 75oCC and boils at 390oCC. If a sample of alcohol has a boiling point of 118oGC, what is its boiling point in oC(Celsius) and what is its boiling point in oCC?

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Quiz 1b (20 points) August 26, 2013

1. (3 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (6 points) Rolls of aluminum foil are 524 mm wide and 0.018 mm thick. What maximum length of aluminum foil can be made from 350.0 lb of aluminum if the density of aluminum is 2.70 g/mL?
3. (3 points) Classify a beaker of flavorful mashed potatoes as as homogeneous or heterogeneous and justify your choice.
4. (8 points) On the new Grossmont temperature (oGC)scale, water freezes at 72oGC and boils at 158oGC. On another new temperature scale, the Cuyamaca (oCC) scale, water freezes at 55oCC and boils at 390oCC. If a sample of alcohol has a boiling point of 118oGC, what is its boiling point in oC(Celsius) and what is its boiling point in oCC?